



IKW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Bo Xia et al.

Title: METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM

Docket No.: 1000-0037

Filed: March 31, 2004

Examiner: Unknown

Serial No.: 10/815,133

Due Date: N/A

Group Art Unit: 2131

**MS Amendment**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

☒ A return postcard and this transmittal document.

☒ An Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 7 cited documents.

Customer Number: 45643

By

John C. Scott  
Reg. No. 38,613

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 13 day of July, 2005.

MEREDITH MESCHER

Name

Meredith Mescher

Signature

(GENERAL)

S/N 10/815,133



PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|             |   |                 |           |
|-------------|---|-----------------|-----------|
| Applicant:  | Bo Xia et al.   | Examiner:       | Unknown   |
| Serial No.: | 10/815,133  | Group Art Unit: | 2131      |
| Filed:      | March 31, 2004  | Docket:         | 1000-0037 |
| Title:      | METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY<br>PARITY CHECK CODE IN A WIRELESS SYSTEM |                 |           |

---

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the referenced materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(1) and 37 C.F.R. §1.97(e)(1), Applicants state that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

It is believed that no fee or statement is required with the Information Disclosure Statement. However, if a final action under §1.113, a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 50-2359 in order to have this Information Disclosure Statement considered.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published

**INFORMATION DISCLOSURE STATEMENT**

Page 2

Serial No : 10/815,133

Dkt: P19060

Filing Date: March 31, 2004

Title: METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM

Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication

Respectfully submitted,

BO XIA ET AL.

By their Representatives,

**CUSTOMER NUMBER: 45643**

480-948-3745

Date

7/12/05

By

John C. Scott

Reg. No. 38,613

**CERTIFICATE UNDER 37 CFR 1.8:** The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 13 day of July, 2005.

MEREDITH MESCHER  
Name

Meredith Mescher  
Signature

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

|                      |                |
|----------------------|----------------|
| Application Number   | 10/815,133     |
| Filing Date          | March 31, 2004 |
| First Named Inventor | Xia, Bo        |
| Group Art Unit       | 2131           |
| Examiner Name        | Unknown        |

Sheet 1 of 1

Attorney Docket No: 1000-0037

**US PATENT DOCUMENTS**

| Examiner Initial * | Cite No. * | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|------------|---------------------|------------------|---|---|
|                    |            | US-6,282,167        | 08/28/2001       | Michon, V., et al.                              |   |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. * | Foreign Document No                          | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>2</sup> |
|--------------------|------------|--|------------------|---|---|----------------|
|                    |            | Country Code - Number - Kind Code (if known) |                  |   |   |                |
|                    |            | EP-1267513A2                                 | 12/18/2002       | Korobkov, D., et al.                            |   |                |
|                    |            | WO-0076115A1                                 | 12/14/2000       | Bostrom, J., et al.                             |   |                |
|                    |            | WO-0249306A2                                 | 06/20/2002       | Liu, H., et al.                                 |   |                |

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------------------|---|----------------|
|                    |                       | FUTAKI, H., et al., "Performance of Low-Density Parity-Check (LDPC) Coded OFDM Systems", <u>IEEE International Conference on Communications</u> , 1 of 5, ICC 2002, (Apr. 28, 2002), 1696-1700  |                |
|                    |                       | SOLLENBERGER, N. R., et al., "Receiver Structures for Multiple Access OFDM", <u>Vehicular Technology Conf., IEEE 49th Houston</u> , 1, (May 16, 1999), 468-472  |                |
|                    |                       | SYED, M. J., et al., "LDPC-based Space-time Coded OFDM Systems Performances over Correlated Fading Channels", <u>Communications, APCC 2003, The 9th Asia-Pacific Conference</u> , 2, (Sept. 21, 2003), 590-594  |                |
|                    |                       | YANG, M., et al., "Design of Efficiently Encodable Moderate Length High-Rate Irregular LDPC Codes", <u>Proceedings of the Annual Conference on Communication, Control and Computing</u> , (Oct. 2, 2002), 1415-1424   |                |

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional) <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached